

FIG. 1  
(SEQ. ID NO. 1)

AspAlaGluPheArgHisAspSerGlyTyrGluValHisHisGlnLysLeuValPhePheAlaGluAspValGlySerAsnLysGlyAla  
IleIleGlyLeuMetValGlyGlyValValIleAlaThr

FIG. 2  
(SEQ. ID NO. 2)

MetLeuProGlyLeuAlaLeuLeuLeuAlaAlaTrpThrAlaArgAlaLeuGluValProThrAspGlyAsnAlaGlyLeuLeuAlaGluP  
roGlnIleAlaMetPheCysGlyArgLeuAsnMetHisMetAsnValGlnAsnGlyLysTrpAspSerAspProSerGlyThrLys  
ThrCysIleAspThrLysGluGlyIleLeuGlnTyrCysGlnGluValTyrProGluLeuGlnIleThrAsnValValGluAlaAsnGlnProValT  
hrIleGlnAsnTrpCysLysArgGlyArgLysGlnCysLysThrHisProHisPheValIleProTyrArgCysLeuValGlyGluPheValSerAs  
pAlaLeuLeuValProAspLysCysLysPheLeuHisGlnGluArgMetAspValCysGluThrHisLeuHisTrpHisThr  
ValAlaLysGluThrCysSerGluLysSerThrAsnLeuHisAspTyrGlyMetLeuLeuProCysGlyIleAspLysPheArgGlyValGluPh  
eValCysCysProLeuAlaGluGluSerAspAsnValAspSerAlaAspAlaGluGluAspAspSerAspValTrpTrpGlyGlyAlaAspThr  
AspTyrAlaAspGlySerGluAspLysValValGluValAlaGluGluGluGluValAlaGluValGluGluGluAlaAsp  
AspAspGluAspAspGluAspGlyAspGluValGluGluGluAlaGluGluProTyrGluGluAlaThrGluArgThrThrSerIleAla  
ThrThrThrThrThrThrThrGluSerValGluGluValValArgGluValCysSerGluGlnAlaGluThrGlyProCysArgAlaMetIleSer  
ArgTrpTyrPheAspValThrGluGlyLysCysAlaProPhePheTyrGlyGlyCysGlyGlyAsnArgAsnAsnPheAspThrGluGluTyr  
CysMetAlaValCysGlySerAlaMetSerGlnSerLeuLeuLysThrThrGlnGluProLeuAlaArgAspProValLysLeu  
ProThrThrAlaAlaSerThrProAspAlaValAspLysTyrLeuGluThrProGlyAspGluAsnGluHisAlaHisPheGlnLysAla  
LysGluArgLeuGluAlaLysHisArgGluArgMetSerGlnValMetArgGluTrpGluGluAlaGluArgGlnAlaLysAsnLeuProLys  
AlaAspLysLysAlaValIleGlnHisPheGlnGluLysValGluSerLeuGluGlnGluAlaAlaAsnGluArgGlnGlnLeuVal  
GluThrHisMetAlaArgValGluAlaMetLeuAsnAspArgArgArgLeuAlaLeuGluAsnTyrIleThrAlaLeuGlnAlaValPro  
ProArgProArgHisValPheAsnMetLeuLysLysTyrValArgAlaGluGlnLysAspArgGlnHisThrLeuLysHisPheGluHis  
ValArgMetValAspProLysLysAlaAlaGlnIleArgSerGlnValMetThrHisLeuArgValIleTyrGluArgMetAsnGlnSer  
LeuSerLeuLeuTyrAsnValProAlaValAlaGluGluIleGlnAspGluValAspGluLeuLeuGlnLysGluGlnAsnTyrSerAsp  
AspValLeuAlaAsnMetIleSerGluProArgIleSerTyrGlyAsnAspAlaLeuMetProSerLeuThrGluThrLysThrThrValGluLeu  
LeuProValAsnGlyGluPheSerLeuAspAspLeuGlnProTrpHisSerPheGlyAlaAspSerValProAlaAsnThrGluAsn  
GluValGluProValAspAlaArgProAlaAlaAspArgGlyLeuThrThrArgProGlySerGlyLeuThrAsnIleLysThrGluGluIleSer  
GluValLysMetAspAlaGluPheArgHisAspSerGlyTyrGluValHisHisGlnLysLeuValPhePheAlaGluAspValGly  
SerAsnLysGlyAlaIleIleGlyLeuMetValGlyGlyValValIleAlaThrValIleValIleThrLeuValMetLeuLysLysLysGlnTyrThr  
SerIleHisHisGlyValValGluValAspAlaAlaValThrProGluGluArgHisLeuSerLysMetGlnGlnAsnGlyTyrGluAsnProThr  
TyrLysPhePheGluGlnMetGlnAsn

FIG. 3  
(SEQ. ID NO. 3)

MetAlaAsnLeuGlyCysTrpMetLeuValLeuPheValAlaThrTrpSerAspLeuGlyLeuCysLysLysArgProLysProGlyGlyTrp  
AsnThrGlyGlySerArgTyrProGlyGlnGlySerProGlyGlyAsnArgTyrProProGlnGlyGlyGlyTrpGlyGlnPro  
HisGlyGlyGlyTrpGlyGlnProHisGlyGlyGlyTrpGlyGlnProHisGlyGlyGlyTrpGlyGlnProHisGlyGlyGlyTrpGly  
GlnGlyGlyGlyThrHisSerGlnTrpAsnLysProSerLysProLysThrAsnMetLysHisMetAlaGlyAlaAlaAlaAlaGlyAla  
ValValGlyGlyLeuGlyGlyTyrMetLeuGlySerAlaMetSerArgProIleIleHisPheGlySerAspTyrGluAspArgTyrTyrArgGlu  
AsnMetHisArgTyrProAsnGlnValTyrTyrArgProMetAspGluTyrSerAsnGlnAsnAsnPheValHisAspCysValAsnIleThrIle  
LysGlnHisThrValThrThrThrThrLysGlyGluAsnPheThrGluThrAspValLysMetMetGluArgValValGluGlnMetCysIleT  
hrGlnTyrGluArgGluSerGlnAlaTyrTyrGlnArgGlySerSerMetValLeuPheSerSerProProValIleLeuLeu  
IleSerPheLeuIlePheLeuIleValGly

FIG. 4  
(SEQ. ID NO. 4)

MetAspValPheMetLysGlyLeuSerLysAlaLysGluGlyValValAlaAlaAlaGluLysThrLysGlnGlyValAlaGluAlaAla  
GlyLysThrLysGluGlyValLeuTyrValGlySerLysThrLysGluGlyValValHisGlyValAlaThrValAlaGluLysThrLysGluGln  
ValThrAsnValGlyGlyAlaValValThrGlyValThrAlaValAlaGlnLysThrValGluGlyAlaGlySerIleAlaAlaAlaThrThrGlyP  
heValLysLysAspGlnLeuGlyLysAsnGluGluGlyAlaProGlnGluGlyIleLeuGluAspMetProValAspProAspAsnGluAlaTy  
rGluMetProSerGluGluGlyTyrGlnAspTyrGluProGluAla

FIG. 3

FIG. 5  
(SEQ. ID NO. 5)

MetAlaGluProArgGlnGluPheGluValMetGluAspHisAlaGlyThrTyrGlyLeuGlyAspArgLysAspGlnGlyGlyTyrThrMet  
HisGlnAspGlnGluGlyAspThrAspAlaGlyLeuLysGluSerProLeuGlnThrProThrGluAspGlySerGluGluProGly  
SerGluThrSerAspAlaLysSerThrProThrAlaGluAspValThrAlaProLeuValAspGluGlyAlaProGlyLysGlnAlaAlaGln  
ProHisThrGluIleProGluGlyThrThrAlaGluGluAlaGlyIleGlyAspThrProSerLeuGluAspGluAlaAlaGlyHisVal  
ThrGlnGluProGluSerGlyLysValValGlnGluGlyPheLeuArgGluProGlyProProGlyLeuSerHisGlnLeuMetSerGly  
MetProGlyAlaProLeuLeuProGluGlyProArgGluAlaThrArgGlnProSerGlyThrGlyProGluAspThrGluGlyGlyArg  
HisAlaProGluLeuLeuLysHisGlnLeuLeuGlyAspLeuHisGlnGluGlyProProLeuLysGlyAlaGlyGlyLysGluArgPro  
GlySerLysGluGluValAspGluAspArgAspValAspGluSerSerProGlnAspSerProProSerLysAlaSerProAlaGlnAsp  
GlyArgProProGlnThrAlaAlaArgGluAlaThrSerIleProGlyPheProAlaGluGlyAlaIleProLeuProValAspPheLeuSer  
LysValSerThrGluIleProAlaSerGluProAspGlyProSerValGlyArgAlaLysGlyGlnAspAlaProLeuGluPheThrPheHisVal  
GluIleThrProAsnValGlnLysGluGlnAlaHisSerGluGluHisLeuGlyArgAlaAlaPheProGlyAlaProGlyGluGlyProGluAla  
ArgGlyProSerLeuGlyGluAspThrLysGluAlaAspLeuProGluProSerGluLysGlnProAlaAlaAlaProArgGly  
LysProValSerArgValProGlnLeuLysAlaArgMetValSerLysSerLysAspGlyThrGlySerAspLysLysAlaLysThr  
SerThrArgSerSerAlaLysThrLeuLysAsnArgProCysLeuSerProLysLeuProThrProGlySerSerAspProLeuIleGlnPro  
SerSerProAlaValCysProGluProProSerSerProLysHisValSerSerValThrSerArgThrGlySerSerGlyAlaLysGluMet  
LysLeuLysGlyAlaAspGlyLysThrLysIleAlaThrProArgGlyAlaAlaProProGlyGlnLysGlyGlnAlaAsnAlaThrArgIlePro  
AlaLysThrProProAlaProLysThrProProSerSerGlyGluProProLysSerGlyAspArgSerGlyTyrSerSerProGlySer  
ProGlyThrProGlySerArgSerArgThrProSerLeuProThrProProThrArgGluProLysLysValAlaValValArgThrProProLysS  
erProSerSerAlaLysSerArgLeuGlnThrAlaProValProMetProAspLeuLysAsnValLysSerLysIleGlySerThrGluAsnLeuLy  
sHisGlnProGlyGlyGlyLysValGlnIleIleAsnLysLysLeuAspLeuSerAsnValGlnSerLysCysGlySerLysAspAsnIleLysHis  
ValProGlyGlyGlySerValGlnIleValTyrLysProValAspLeuSerLysValThrSerLysCysGlySerLeuGly  
AsnIleHisHisLysProGlyGlyGlyGlnValGluValLysSerGluLysLeuAspPheLysAspArgValGlnSerLysIleGlySerLeuAsp  
AsnIleThrHisValProGlyGlyGlyAsnLysLysIleGluThrHisLysLeuThrPheArgGluAsnAlaLysAlaLysThrAspHisGlyAla  
GluIleValTyrLysSerProValValSerGlyAspThrSerProArgHisLeuSerAsnValSerSerThrGlySerIleAspMet  
ValAspSerProGlnLeuAlaThrLeuAlaAspGluValSerAlaSerLeuAlaLysGlnGlyLeu

FIG. 6  
(SEQ. ID NO. 6)

MetAlaThrLysAlaValCysValLeuLysGlyAspGlyProValGlnGlyIleIleAsnPheGluGlnLysGluSerAsnGlyProValLysVal  
TrpGlySerIleLysGlyLeuThrGluGlyLeuHisGlyPheHisValHisGluPheGlyAspAsnThrAlaGlyCysThrSerAlaGlyProHis  
PheAsnProLeuSerArgLysHisGlyGlyProLysAspGluGluArgHisValGlyAspLeuGlyAsnValThrAlaAspLys  
AspGlyValAlaAspValSerIleGluAspSerValIleSerLeuSerGlyAspHisCysIleIleGlyArgThrLeuValValHisGluLys  
AlaAspAspLeuGlyLysGlyGlyAsnGluGluSerThrLysThrGlyAsnAlaGlySerArgLeuAlaCysGlyValIleGlyIleAlaGln

MetAlaThrLeuGluLysLeuMetLysAlaPheGluSerLeuLysSerPheGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnProProProProProProProProProProProGlnLeuProGlnProProProGlnAlaGlnProLeuProGlnProGlnProProProProProProProProProProProGlyProAlaValAlaGluGluProLeuHisArgProLysLysGluLeuSerAlaThrLysLysAspArgValAsnHisCysLeuThrIleCysGluAsnIleValAlaGlnSerValArgAsnSerProGluPheGlnLysLeuLeuGlyIleAlaMetGluLeuPheLeuLeuCysSerAspAlaGluSerAspValArgMetValAlaAspGluCysLeuAsnLysValIleLysAlaLeuMetAspSerAsnLeuProArgLeuGlnLeuGluLeuTyrLysGluIleLysLysAsnGlyAlaProArgSerLeuArgAlaAlaLeuTrpArgPheAlaGluLeuAlaHisLeuValArgProGlnLysCysArgProTyrLeuValAsnLeuLeuProCysLeuThrArgThrSerLysArgProGluGluSerValGlnGluThrLeuAlaAlaAlaValProLysIleMetAlaSerPheGlyAsnPheAlaAsnAspAsnGluIleLysValLeuLeuLysAlaPhelleAlaAsnLeuLysSerSerSerProThrIleArgArgThrAlaAlaGlySerAlaValSerIleCysGlnHisSerArgArgThrGlnTyrPheTyrSerTrpLeuLeuAsnValLeuLeuGlyLeuLeuValProValGluAspGluHisSerThrLeuLeulleLeuGlyValLeuLeuThrLeuArgTyrLeuValProLeuLeuGlnGlnGlnValLysAspThrSerLeuLysGlySerPheGlyValThrArgLysGluMetGluValSerProSerAlaGluGlnLeuValGlnValTyrGluLeuThrLeuHisHisThrGlnHisGlnAspHisAsnValValThrGlyAlaLeuGluLeuLeuGlnGlnLeuPheArgThrProProProGluLeuLeuGlnThrLeuThrAlaValGlyGlyIleGlyGlnLeuThrAlaAlaLysGluGluSerGlyGlyArgSerArgSerGlySerIleValGluLeuilleAlaGlyGlyGlySerSerCysSerProValLeuSerArgLysGlnLysGlyLysValLeuLeuGlyGluGluGluAlaLeuGluAspAspSerGluSerArgSerAspValSerSerSerAlaLeuThrAlaSerValLysAspGluIleSerGlyGluLeuAlaAlaSerSerGlyValSerThrProGlySerAlaGlyHisAspllleThrGluGlnProArgSerGlnHisThrLeuGlnAlaAspSerValAspLeuAlaSerCysAspLeuThrSerSerAlaThraspGlyAspGluGluAsplleLeuSerHisSerSerSerGlnValSerAlaValProSerAspProAlaMetAspLeuAsnAspGlyThrGlnAlaSerSerProIleSerAspSerSerGlnThrThrThrGluGlyProAspSerAlaVarThrProSerAspSerSerGluilleValLeuAspGlyThrAaspAsnGlnTyrLeuGlyLeuGlnIleGlyGlnProGlnAspGluAspGluGluAlaThrGlyIleLeuProAspGluAlaSerGluAlaPheArgAsnSerSerMetAlaLeuGlnGlnAlaHisLeuLeuLysAsnMetSerHisCysArgGlnProSerAspSerSerValAspLysPheValLeuArgAspGluAlaThrGluProGlyAspGlnGluAsnLysProCysArgIleLysGlyAsplleGlyGlnSerThrAspAspAspSerAlaProLeuValHisCysValArgLeuLeuSerAlaSerPheLeuLeuThrGlyGlyLysAsnValLeuValProAspArgAspValArgValSerValLysAlaLeuAlaLeuSerCysValGlyAlaAlaValAlaLeuHisProGluSerPhePheSerLysLeuTyrLysValProLeuAspThrThrGluTyrProGluGluGlnTyrValSerAsplleLeuAsnTyrIleAspHisGlyAspProGlnValArgGlyAlaThrAlalleLeuCysGlyThrLeuilleCysSerIleLeuSerArgSerArgPheHisValGlyAspTrpMetGlyThrIleArgThrLeuThrGlyAsnThrPheSerLeuAlaAspCysIleProLeuLeuArgLysThrLeuLysAspGluSerSerValThrCysLysLeuAlaCysThrAlaValArgAsnCysValMetSerLeuCysSerSerSerTyrSerGhuLeuGlyLeuGlnLeuilleleEspValLeuThrLeuArgAsnSerSerTyrTrpLeuValArgThrGluLeuLeuGluThrLeuAlaGluilleAspPheArgLeuValSerPheLeuGluAlaLysAlaGluAsnLeuHisArgGlyAlaHisHisTyrThrGlyLeuLeuLysLeuGlnGluArgValLeuAsnAsnValVallleHisLeuLeuGlyAspGluAspProArgValArgHisValAlaAlaAlaSerLeuilleArgLeuValProLysLeuPheTyrLysCysAspGlnGlyGlnAlaAspProValValAlaValAlaArgAspGlnSerSerValTyrLeuLysLeuLeuMethisGluThrGlnProProSerHisPheSerValSerThrIleThrArgIleTyrArgGlyTyrAsnLeuLeuProSerIleThrAspValThrMetGluAsnAsnLeuSerArgVallleAlaAlaValSerHisGluLeuilleThrSerThrThrArgAlaLeuThrPheGlyCysCysGluAlaLeuCysLeuLeuSerThrAlaPheProValCysIleTrrpSerLeuGlyTrpHisCysGlyValProProLeuSerAlaSerAspGluSerArgLysSerCysThrValGlyMetAlaThrMetIleLeuThrLeuLeuSerSerAlaTrppPheProLeuAspLeuSerAlaHisGlnAspAlaLeuilleLeuAlaGlyAsnLeuLeuAlaAlaSerAlaProLysSerLeuArgSerSerTrpAlaSerGluGluGluAlaAsnProAlaAlaThrLysGlnGluGluValTrpProAlaLeuGlyAspArgAlaLeuValProMetValGluGlnLeuPheSerHisLeuLeuLysValIleAsnIleCysAlaHisValLeuAspAspValAlaProGlyProAlalleLysAlaAlaLeuProSerLeuThrAsnProProSerLeuSerProIleArgArgLysGlyLysGluLysGluProGlyGluGlnAlaSerValProLeuSerProLysLysGlySerGluAlaSerAlaAlaSerArgGlnSerAspThrSerGlyProValThrThrSerLysSerSerSerLeuGlySerPheTyrHisLeuProSerTyrLeuLysLeuHisAspValLeuLysAlaThrHisAlaAsnTyrLysValThrLeuAspLeuGlnAsnSerThrGluLysPheGlyGlyPheLeuArgSerAlaLeuAspValLeuSerGlnIleLeuGluLeuAlaThrLeuGlnAsplleGlyLysCysValGluGluilleLeuGlyTyrLeuLysSerCysPheSerArgGluProMetMetAlaThrValCysValGlnGlnLeuLeuLysThrLeuPheGlyThrAsnLeuAlaSerGlnPheAspGlyLeuSerSerAsnProSerLysSerGlnGlyArgAlaGlnArgLeuGlySerSerSerValArgProGlyLeuTyrHisTyrCysPheMetAlaProTyrThrHisPheThrGlnAlaLeuAlaAspAlaSerLeuArgAsnMetValGlnAlaGluGlnGluAsnAspThrSerGlyTrpPheAspValLeuGlnLysValSerThrGlnLeuLysThrAsnLeuThrSerValThrLysAsnArgAlaAspLysAsnAlalleHisAsnHisIleArgLeuPheGluProLeuValIleLysAlaLeuLysGlnTyrThrThrThrTrcysValGlnLeuGlnLysGlnValLeuAspLeuLeuAlaGlnLeuValGlnLeuArgValAsnTyrCysLeuLeuAspSerAspGlnValPhelleglyPheValLeuLysGlnPheGluTyrIleGluValGlyGlnPheArgGluSerGluAlallelloProAsnIlePhePhePheLeuValLeuLeuSerTyrGluArgTyrHisSerLysGlnIlelleGlylleProLysIlelleGlnLeuCysAspGlyIleMetAlaSerGlyArgLysAlaSerProGlnProTyrArgLeuCysSerPro

FIG. 8

09904987 074204



FIG. 9

090409Z 074304

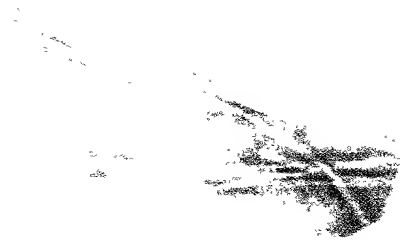
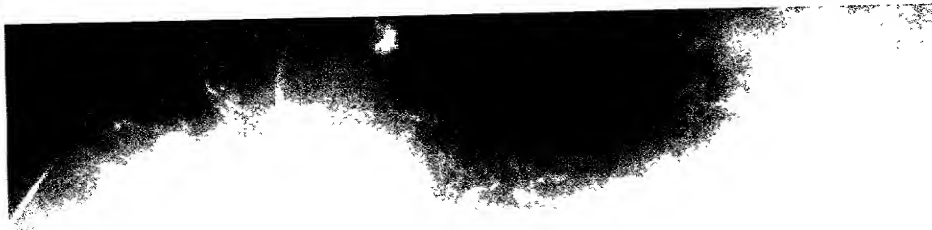


FIG. 10

FOOT 280060



FIG. 11

00004987 071204



FIG. 12

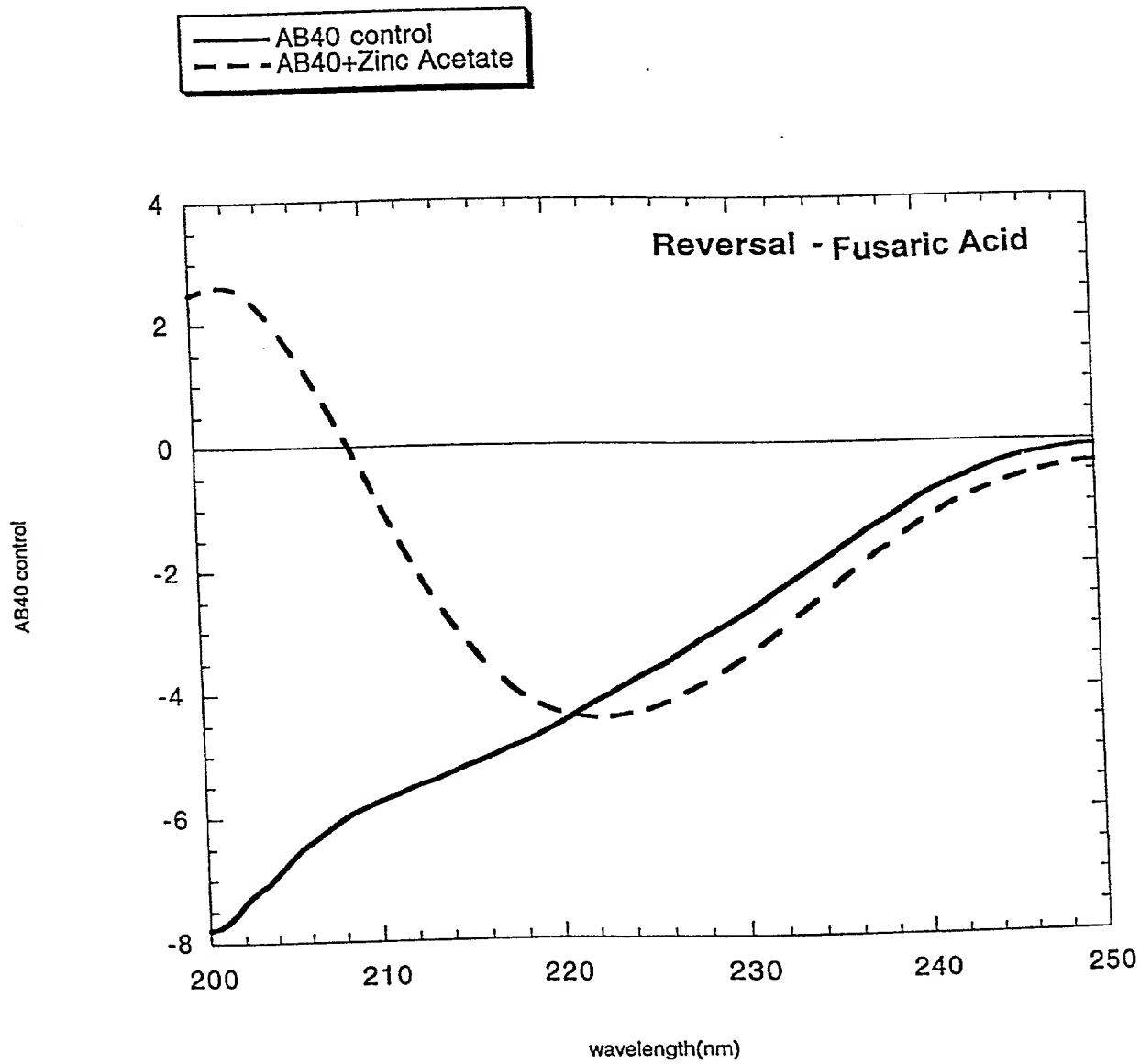


FIG. 13

FOET 20 28640660

AB40 control

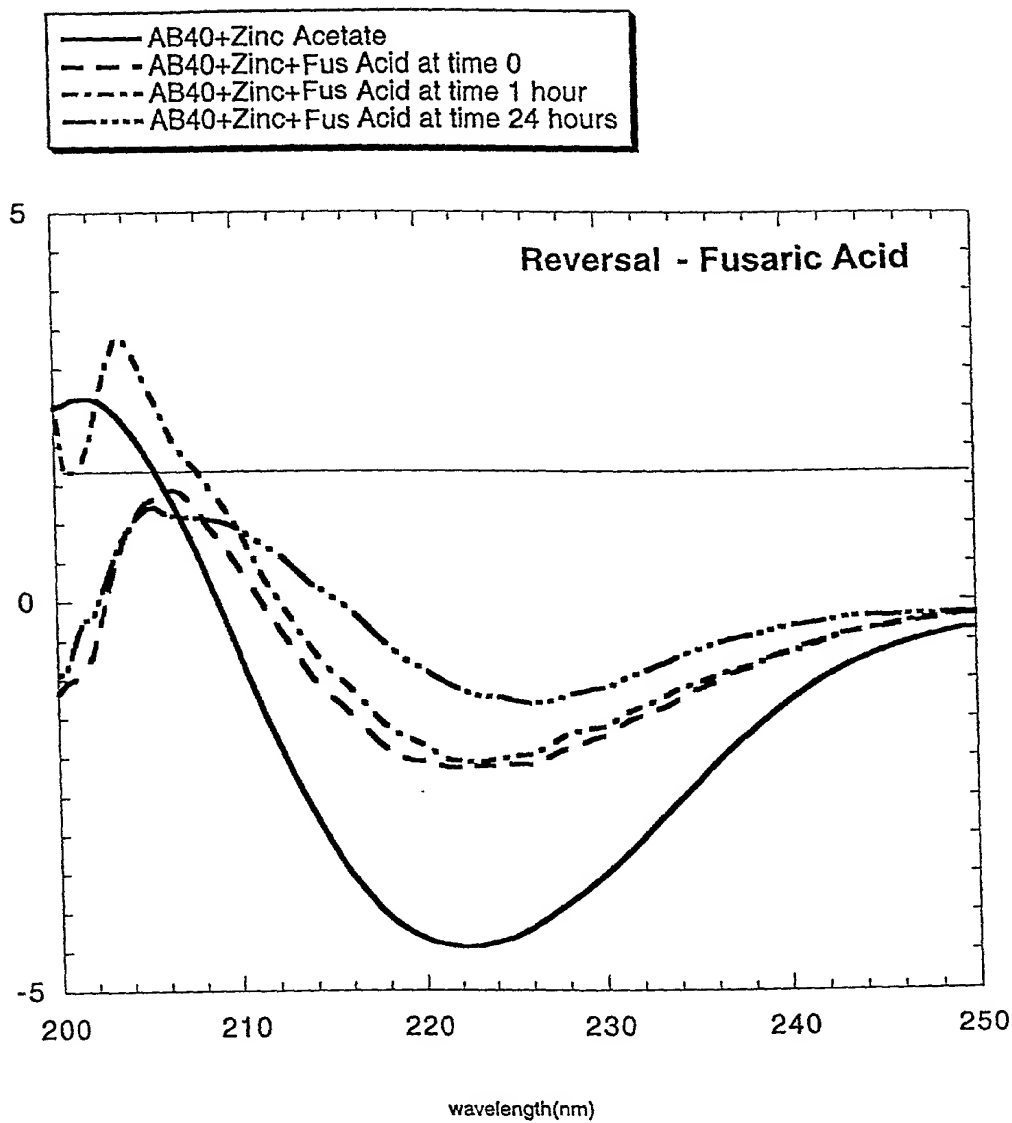


FIG. 14